ADDRESS OFFSET	MSB							LSB

00_{16}	TABLE_ID 252	SOURCE_ ID 254	RATING_ REGION 256	ETM_ID 258	RESERVED

FLAG FIELD 251

01_{16}	TABLE_ID	262
02_{16}	SOURCE_ID (MSB)	264
03_{16}	SOURCE_ID (LSB)	265
04_{16}	RATING_REGION (MSB)	266
05_{16}	RATING_REGION (LSB)	267
06_{16}	ETM_ID (MSB)	268
07_{16}	ETM_ID (SECOND MSB)	269
08_{16}	ETM_ID (THIRD MSB)	270
09_{16}	ETM_ID (LSB)	271

ATTRIBUTE FIELDS 260

FIG. 1 (PRIOR ART)

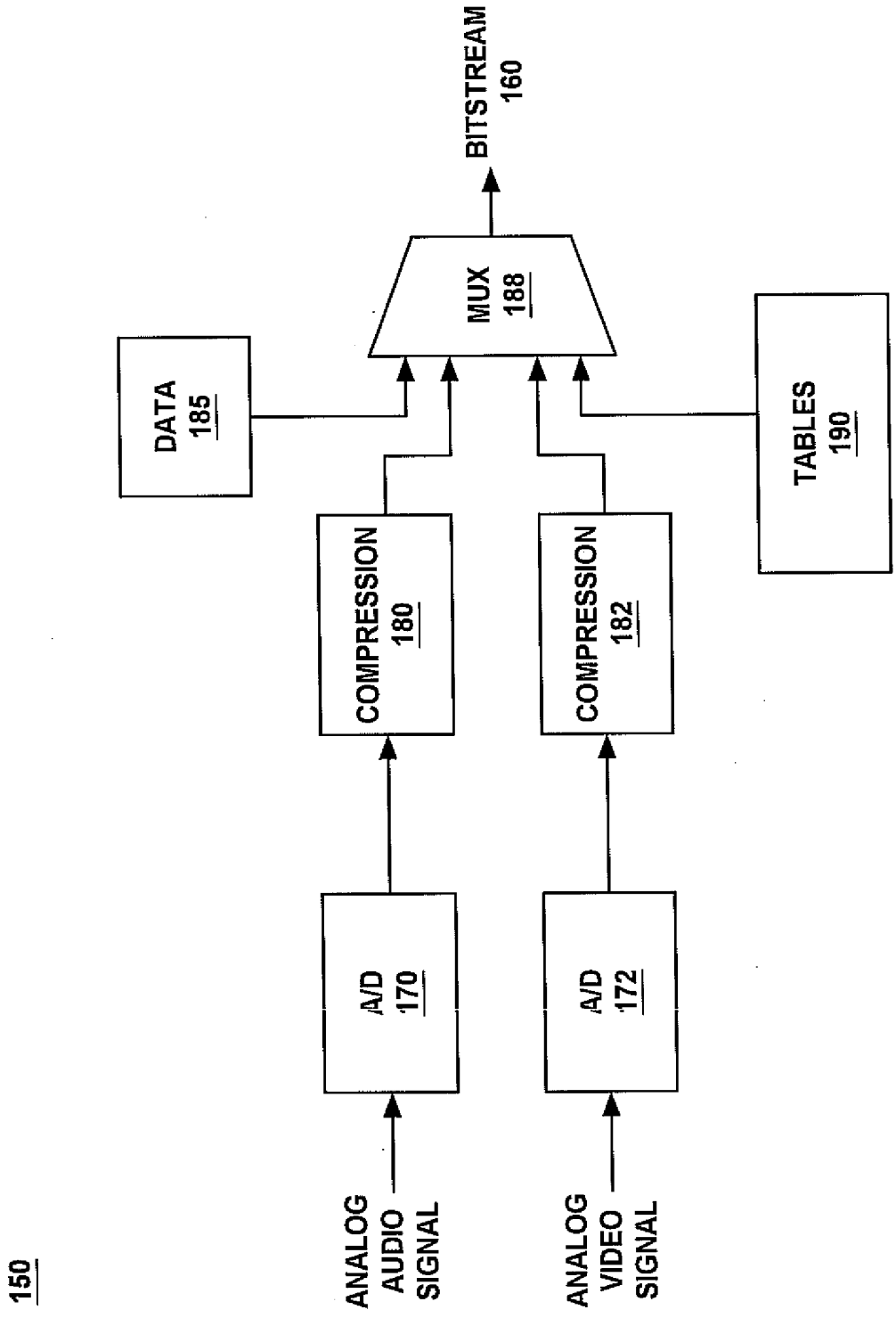
150
ANALOG AUDIO SIGNAL
ANALOG VIDEO SIGNAL
A/D 170
A/D 172
COMPRESSION 180
COMPRESSION 182
DATA 185
MUX 188
TABLES 190
BITSTREAM 160

FIG. 2

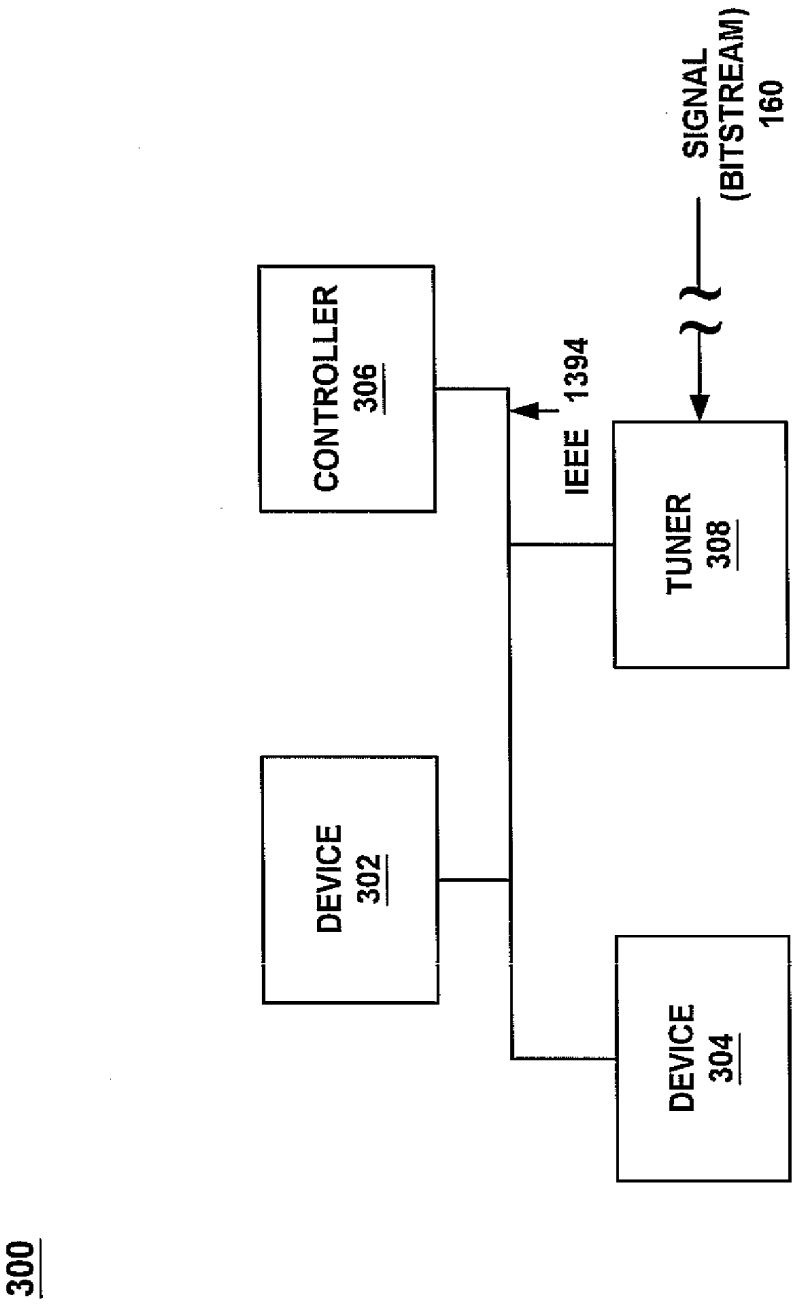
300
CONTROLLER
306
DEVICE
302
DEVICE
304
IEEE 1394
TUNER
308
SIGNAL
(BITSTREAM)
160

FIG. 3

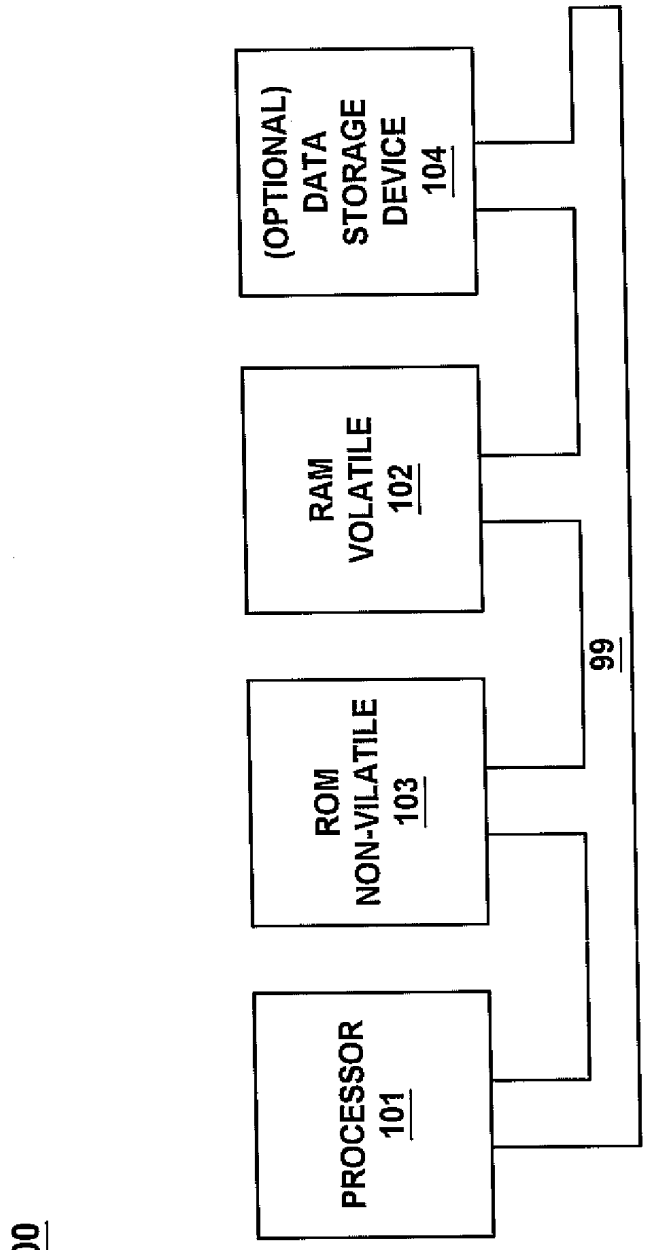
100
PROCESSOR
101
ROM
NON-VILATILE
103
RAM
VOLATILE
102
(OPTIONAL)
DATA
STORAGE
DEVICE
104
99

FIG. 4

ADDRESS OFFSET	MSB							LSB

00_{16}	TABLE_ID 502	SOURCE_ ID 504	RATING_ REGION 506	ETM_ID 508	RESERVED

FLAG FIELD 501

01_{16}	TABLE_ID	521
02_{16}	SOURCE_ID (MSB),OR RATING_REGION (MSB), OR ETM_ID (MSB)	522
03_{16}	SOURCE_ID (LSB), OR RATING_REGION (LSB), OR ETM_ID (SECOND MSB)	523
04_{16}	ETM_ID (THIRD MSB)	524
05_{16}	ETM_ID (LSB)	525

ATTRIBUTE FIELDS 511

FIG. 5

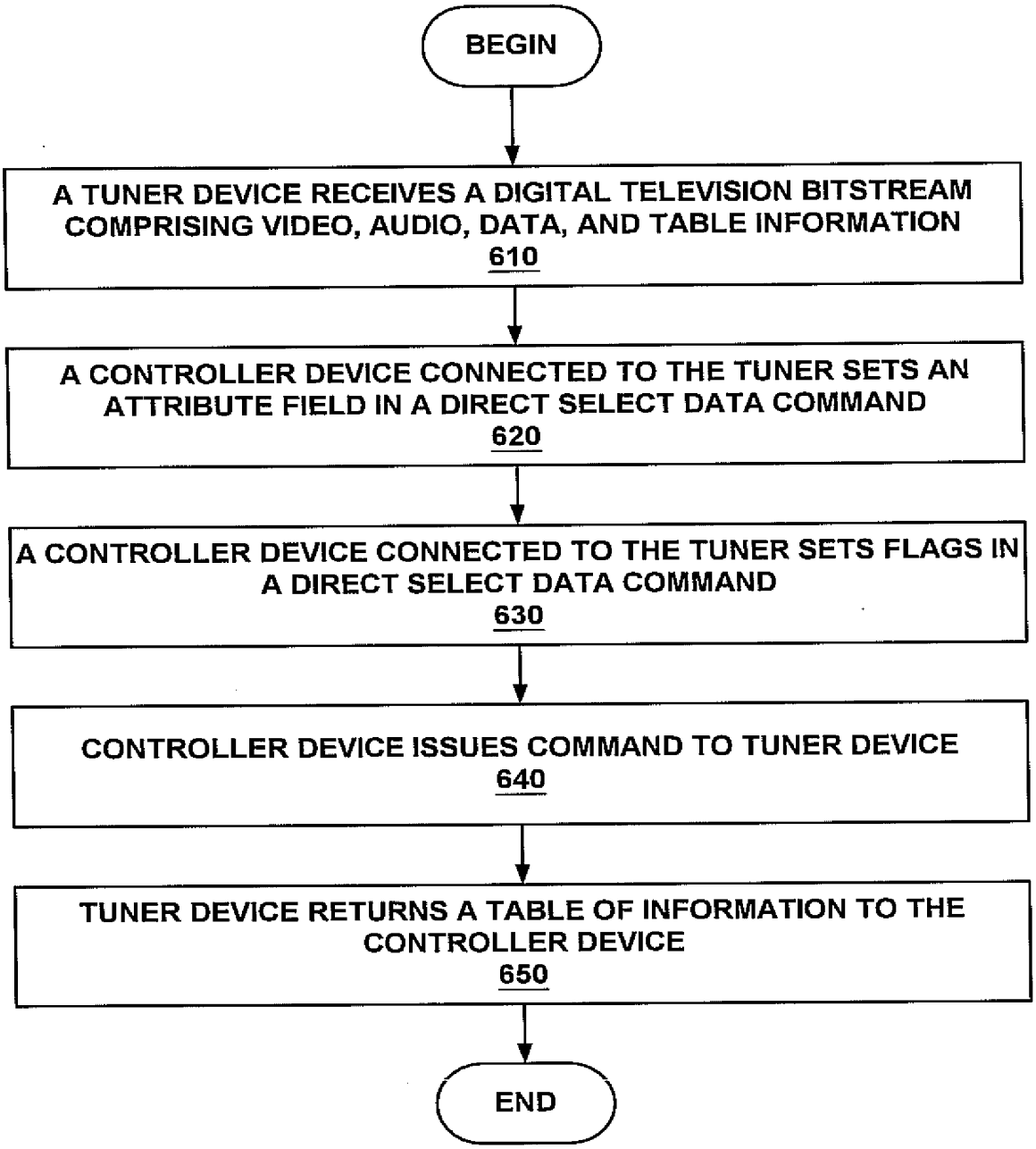
BEGIN
A TUNER DEVICE RECEIVES A DIGITAL TELEVISION BITSTREAM COMPRISING VIDEO, AUDIO, DATA, AND TABLE INFORMATION
610
A CONTROLLER DEVICE CONNECTED TO THE TUNER SETS AN ATTRIBUTE FIELD IN A DIRECT SELECT DATA COMMAND
620
A CONTROLLER DEVICE CONNECTED TO THE TUNER SETS FLAGS IN A DIRECT SELECT DATA COMMAND
630
CONTROLLER DEVICE ISSUES COMMAND TO TUNER DEVICE
640
TUNER DEVICE RETURNS A TABLE OF INFORMATION TO THE CONTROLLER DEVICE
650
END

FIG. 6

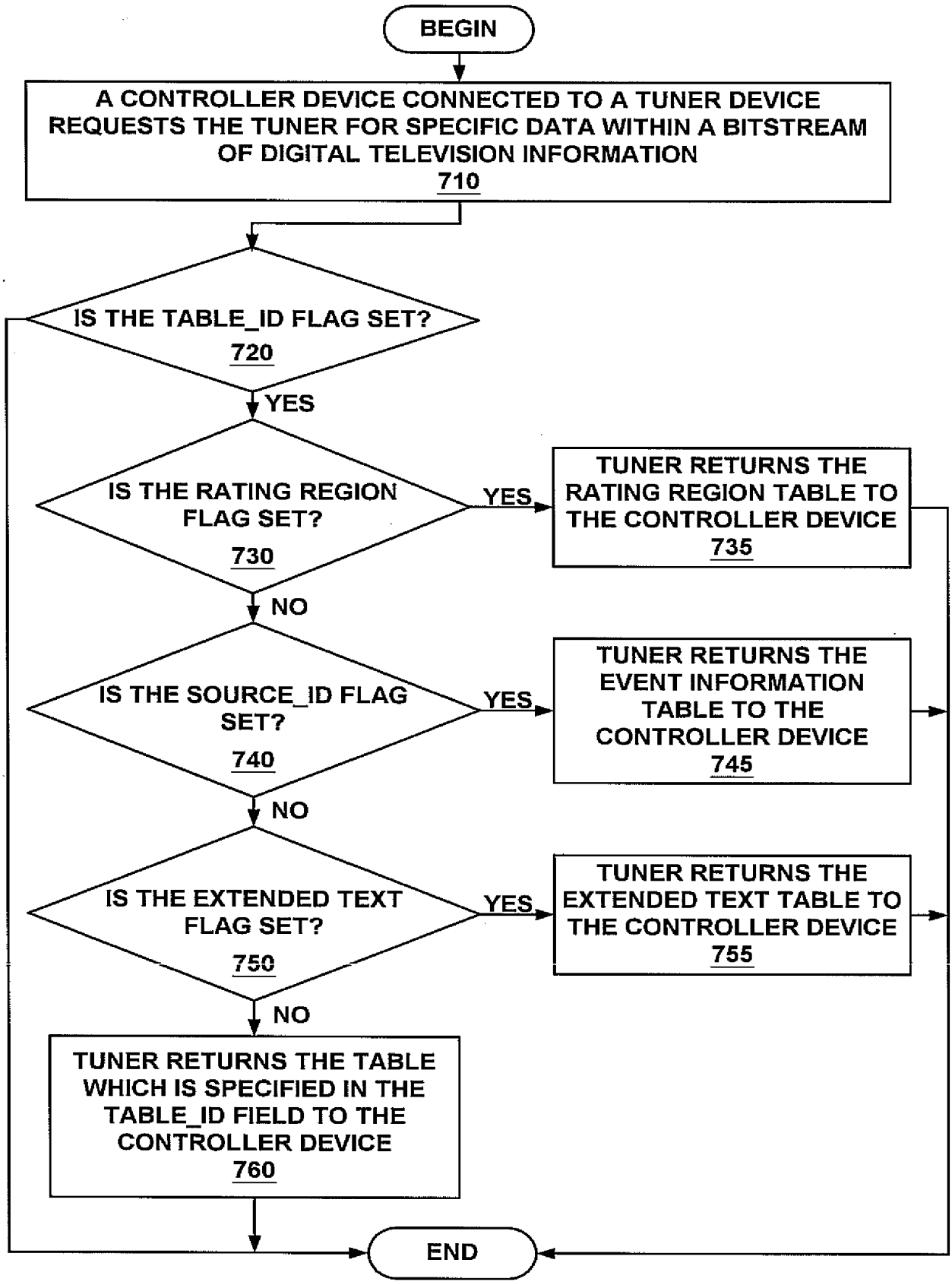
BEGIN
A CONTROLLER DEVICE CONNECTED TO A TUNER DEVICE REQUESTS THE TUNER FOR SPECIFIC DATA WITHIN A BITSTREAM OF DIGITAL TELEVISION INFORMATION
710
IS THE TABLE_ID FLAG SET?
720
YES
IS THE RATING REGION FLAG SET?
730
YES
TUNER RETURNS THE RATING REGION TABLE TO THE CONTROLLER DEVICE
735
NO
IS THE SOURCE_ID FLAG SET?
740
YES
TUNER RETURNS THE EVENT INFORMATION TABLE TO THE CONTROLLER DEVICE
745
NO
IS THE EXTENDED TEXT FLAG SET?
750
YES
TUNER RETURNS THE EXTENDED TEXT TABLE TO THE CONTROLLER DEVICE
755
NO
TUNER RETURNS THE TABLE WHICH IS SPECIFIED IN THE TABLE_ID FIELD TO THE CONTROLLER DEVICE
760
END

FIG. 7